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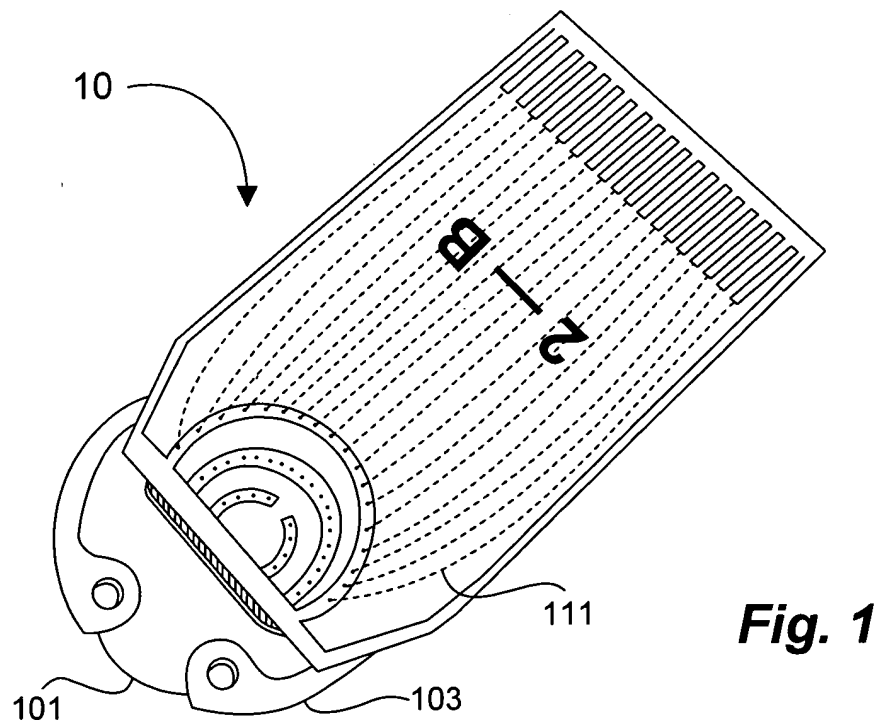
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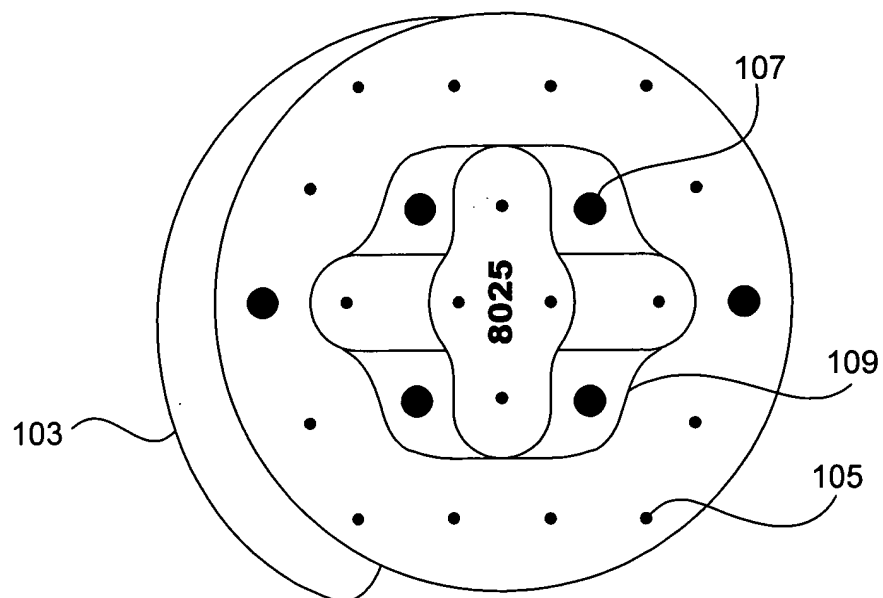
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**Fig. 3**



**Fig. 4**

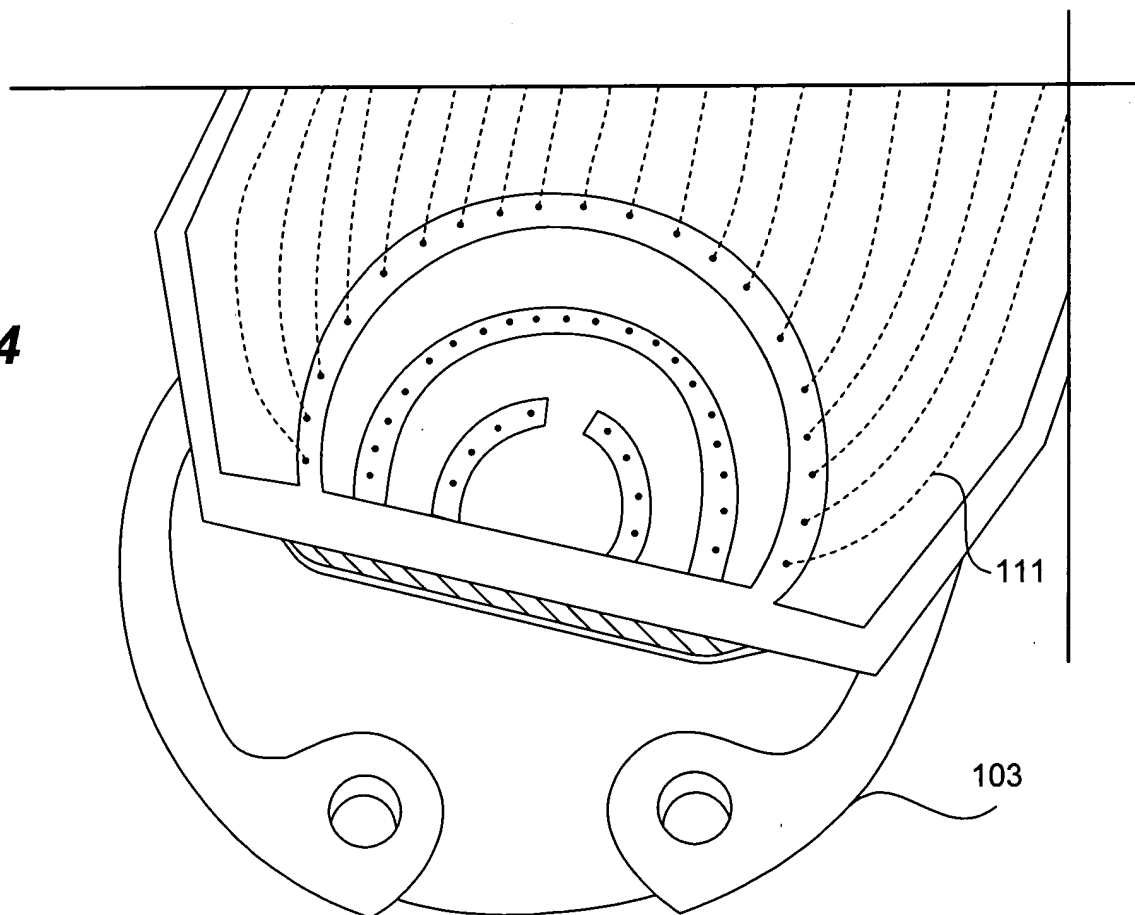


FIGURE 5

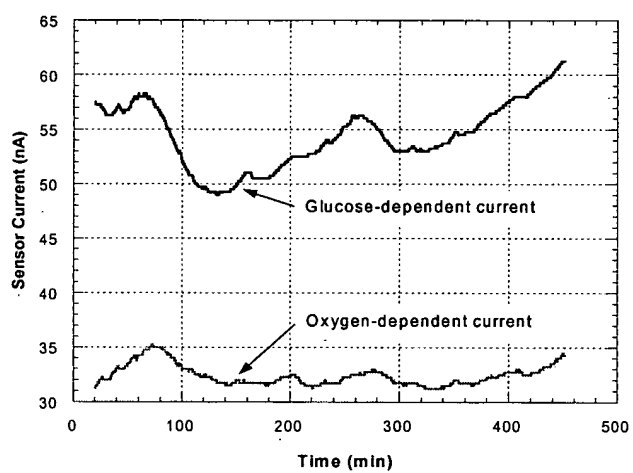


FIGURE 6

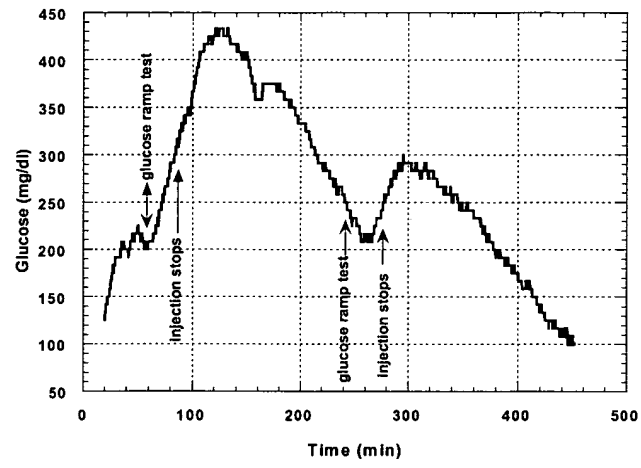


FIGURE 7

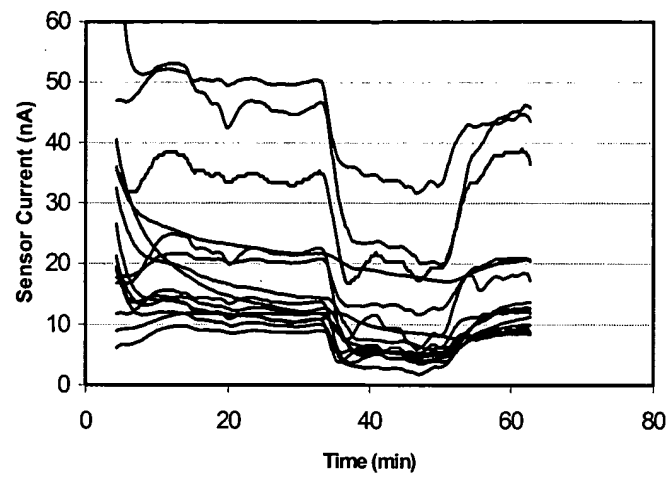


Figure 8 Algorithm for Modifying (or Generating) Signal Adjustment Factors Using Extrinsic Measurements

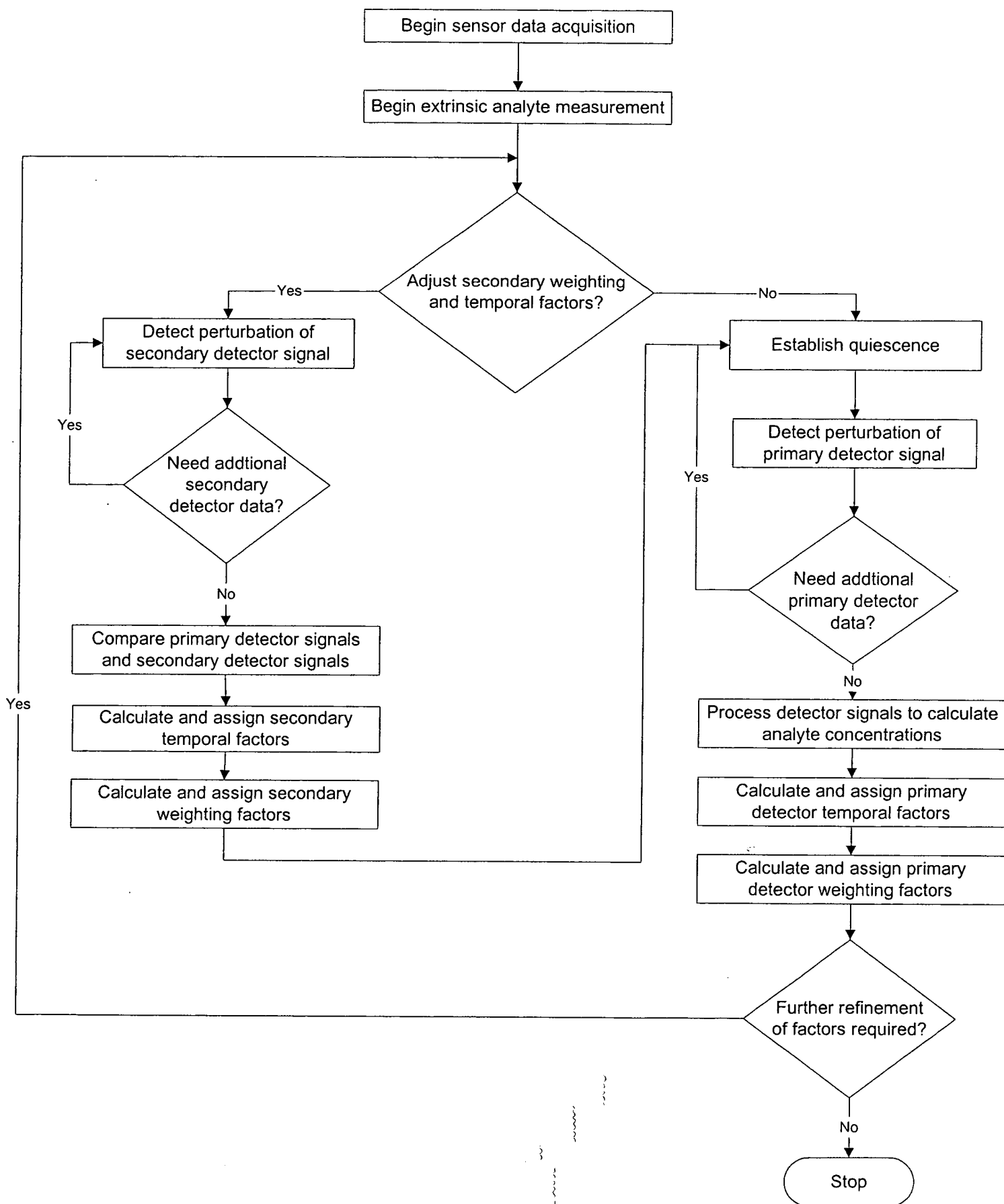


Figure 9 Algorithm for Modifying Secondary Weighting and Temporal Factors without Extrinsic Measurements

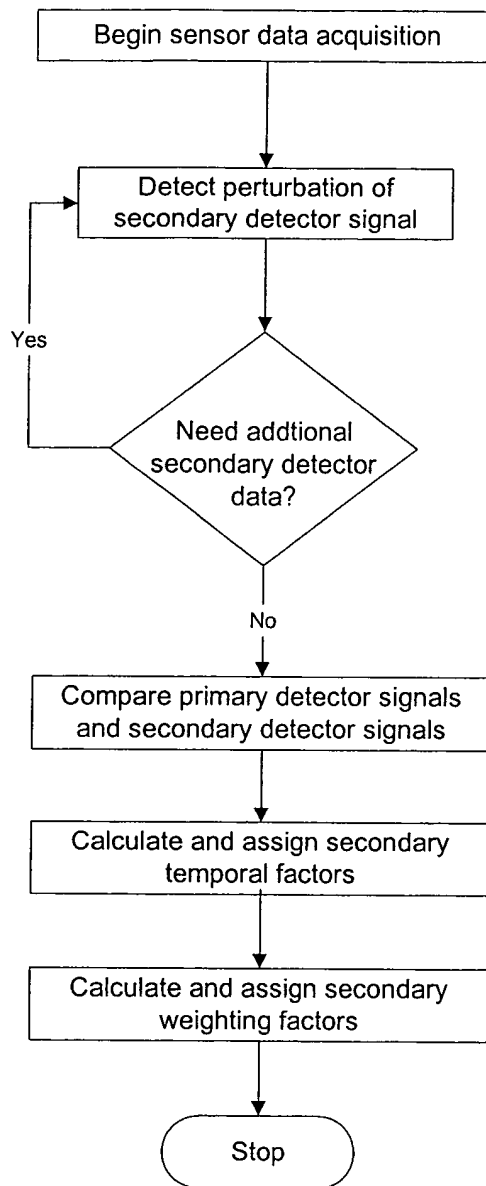




Figure 10 Algorithm for Checking  
Detector Signal Integrity and  
Calculating Analyte Concentration

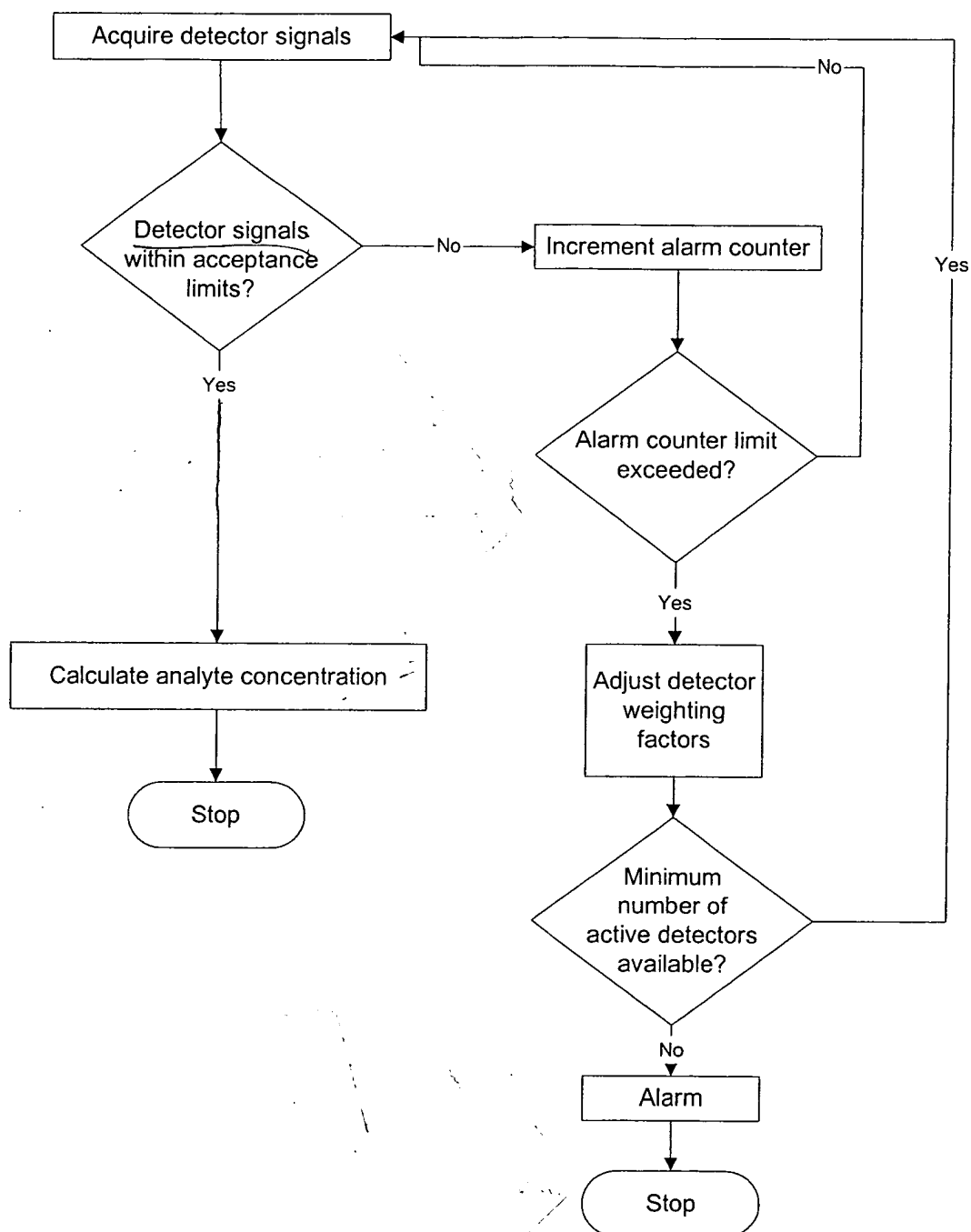


Figure 11: Raw Currents from All Detectors

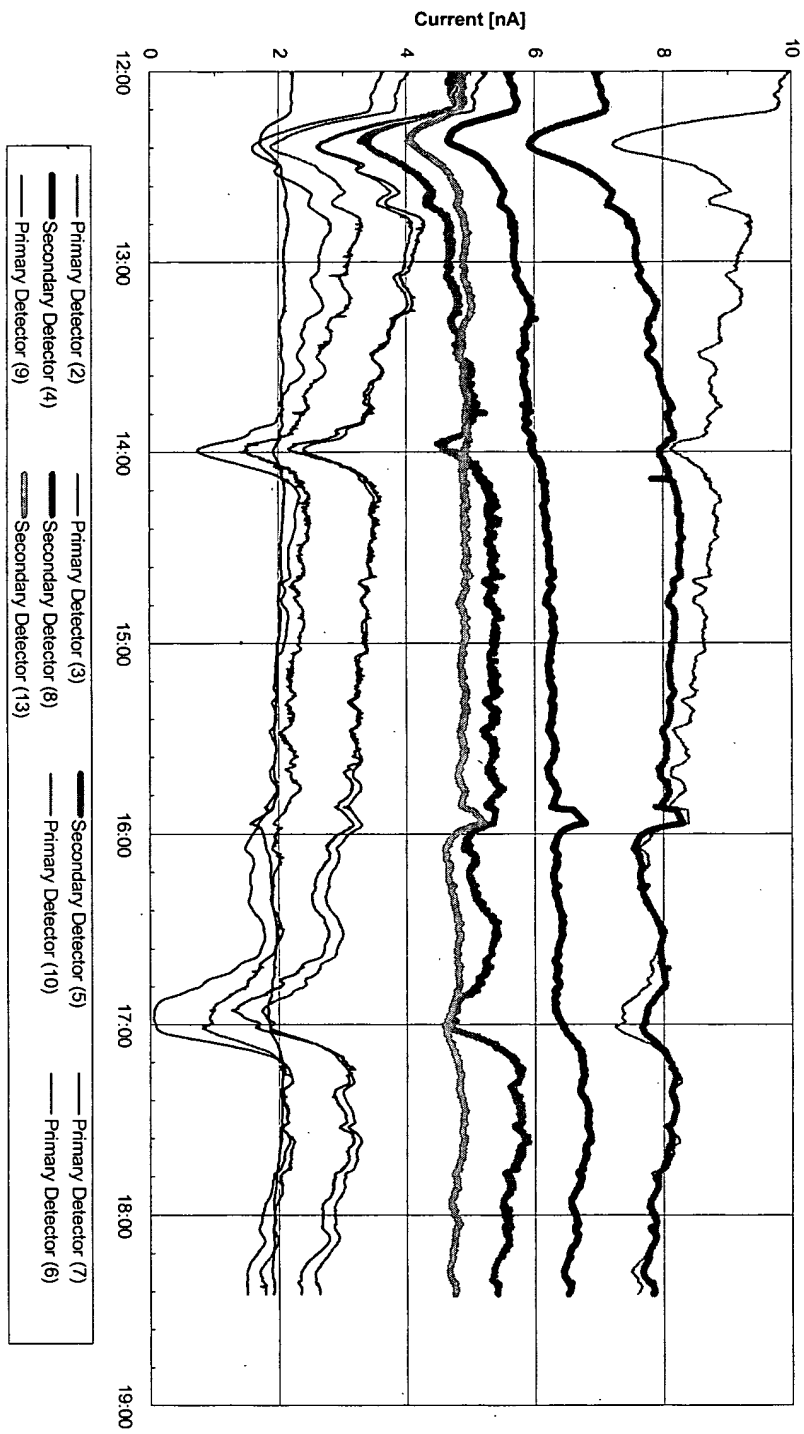


Figure 12: Enlarged View of Secondary Signal Temporal Adjustment Region

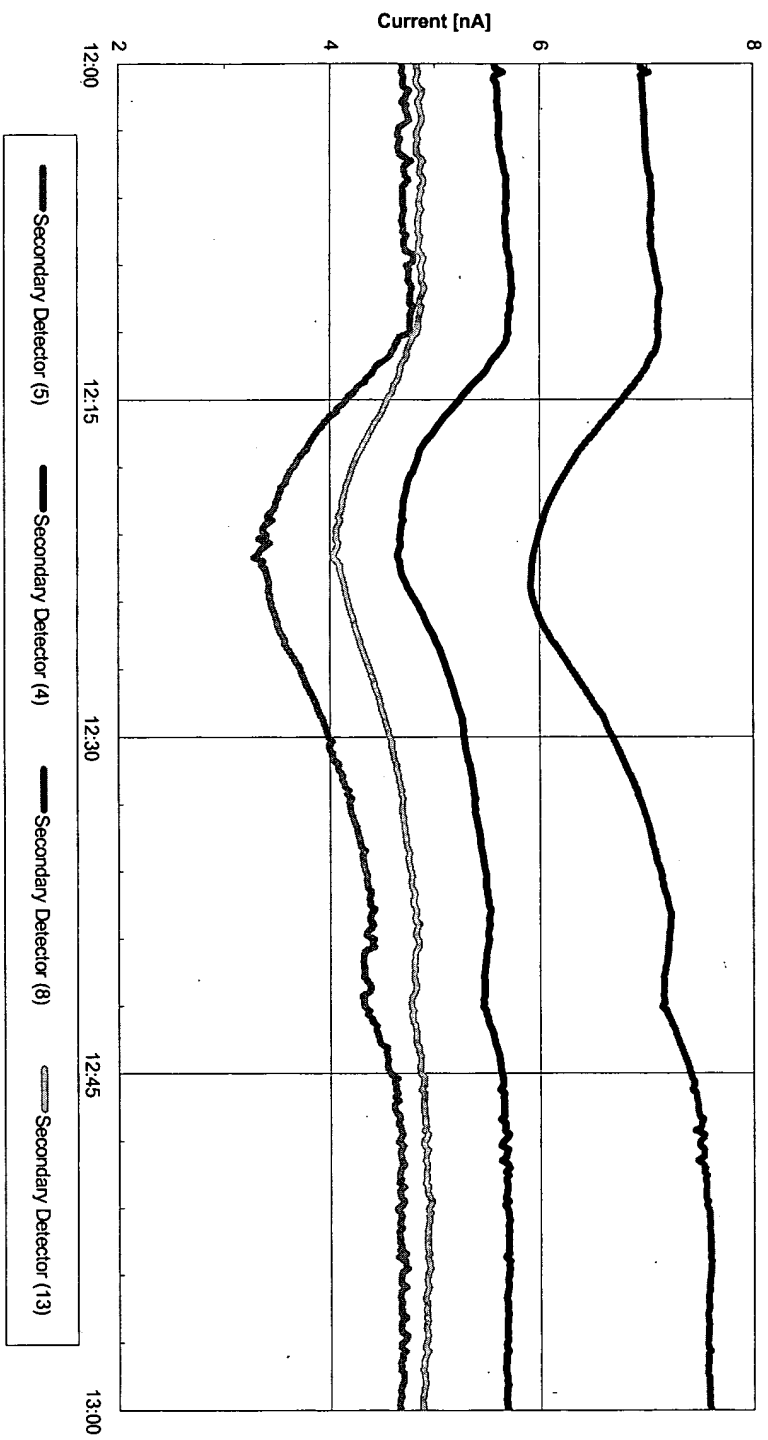


Figure 13: Secondary Signal Temporal Adjustment

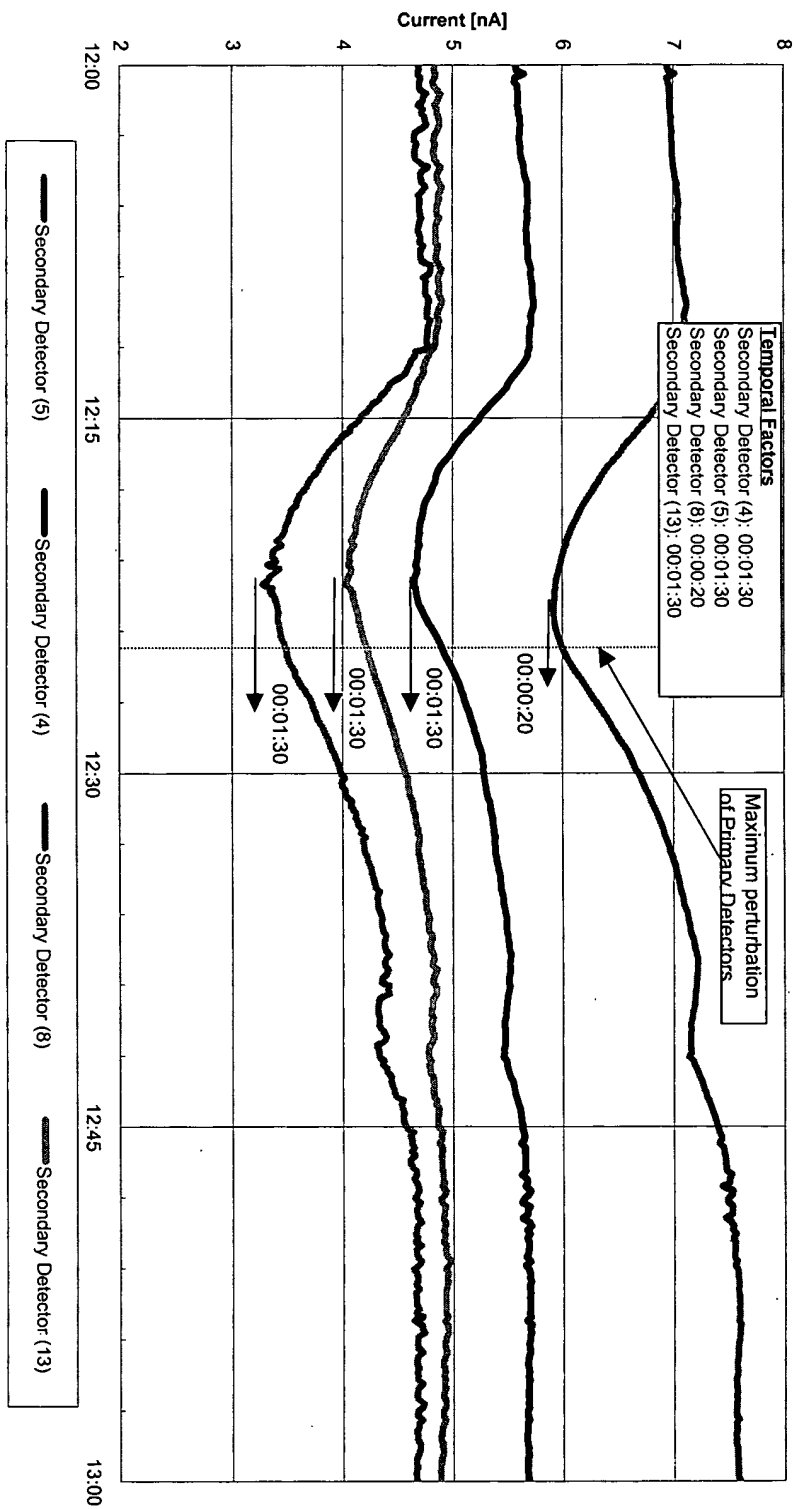


Figure14: Secondary Signal Weighting Factor Adjustments

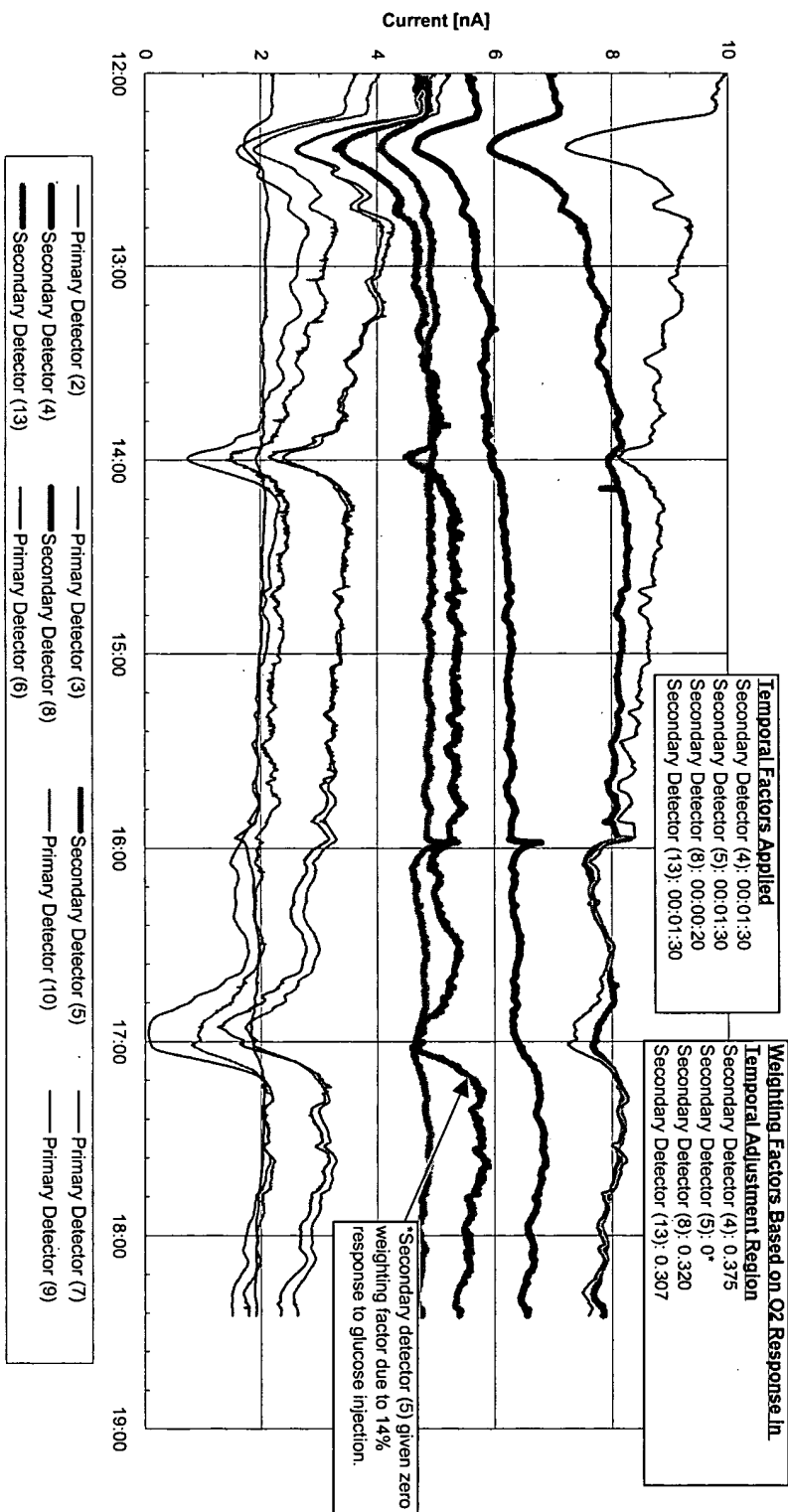


Figure 15: Weighted and Summed Secondary Detector Signal

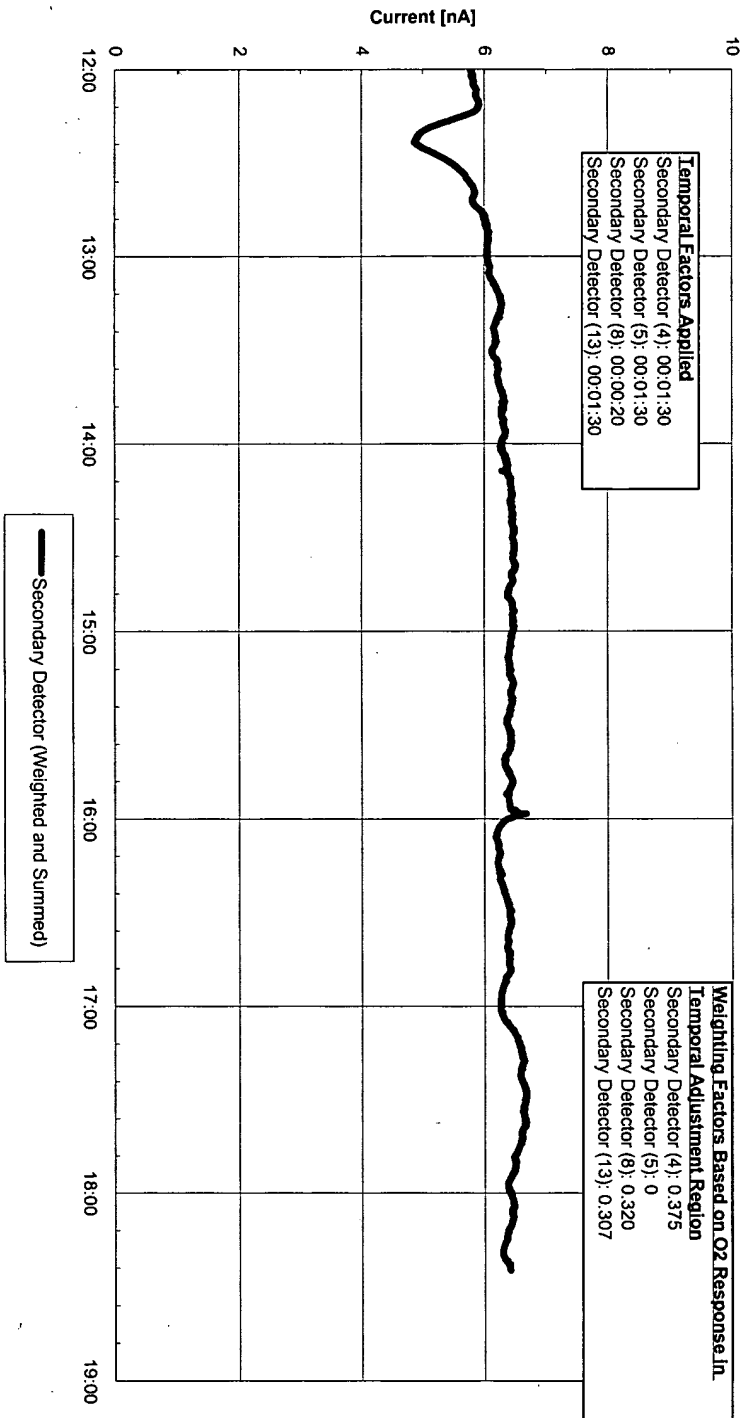
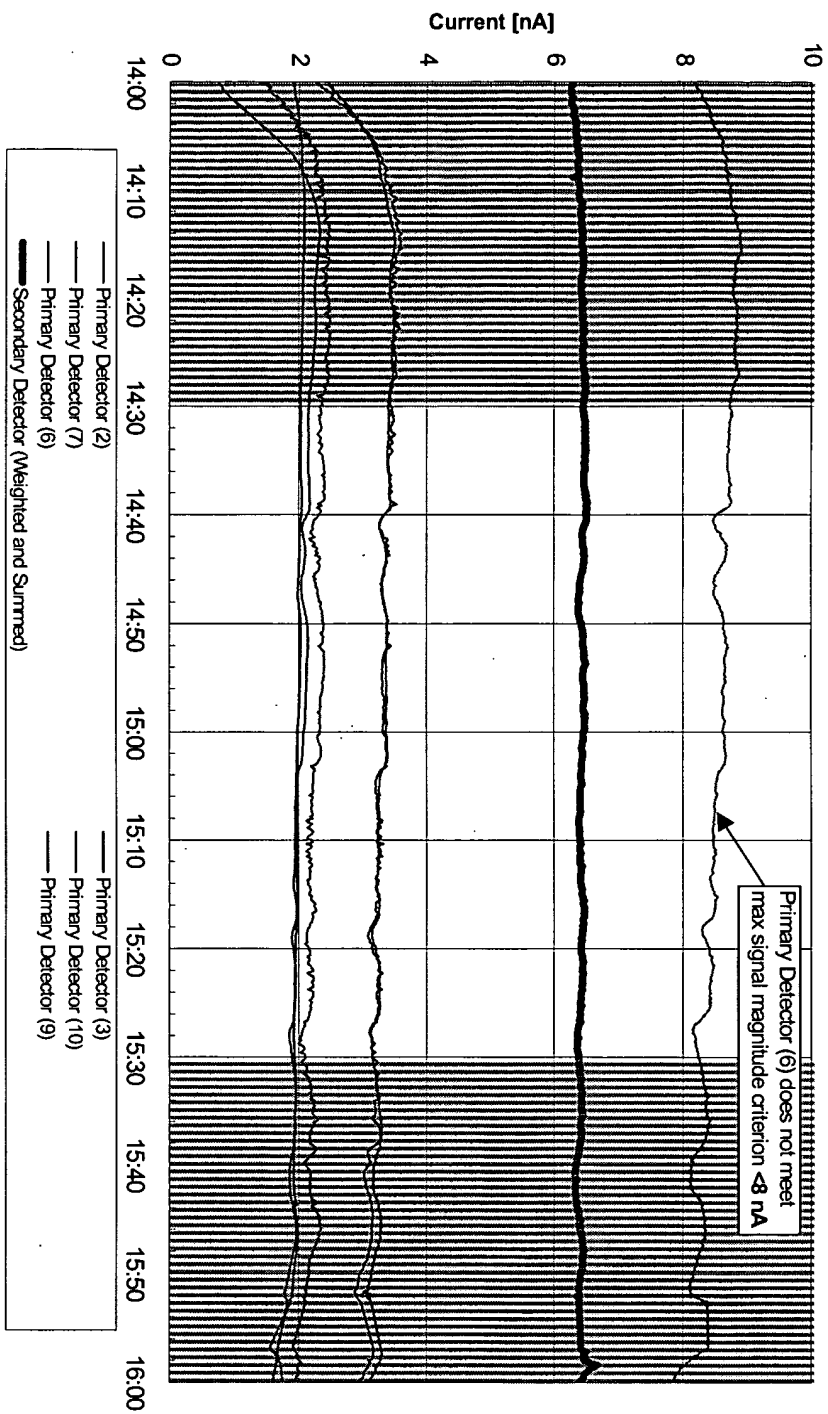


Figure 16: Establish Quiescence



**Figure 17: Temporally Adjusted, Weighted and Summed Secondary Signal Converted to PO2 and Raw Primary Signals**

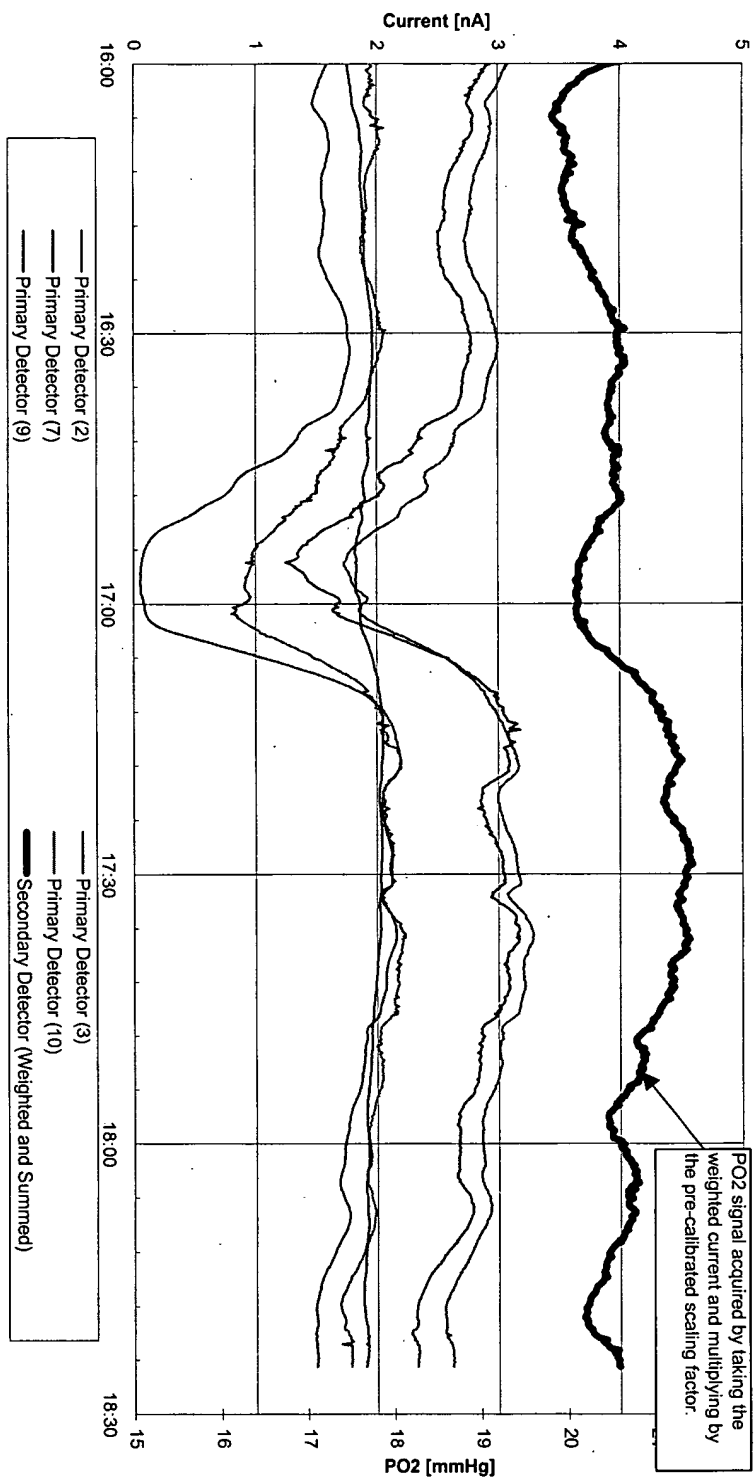




Figure 18: Calculated Analyte Concentrations

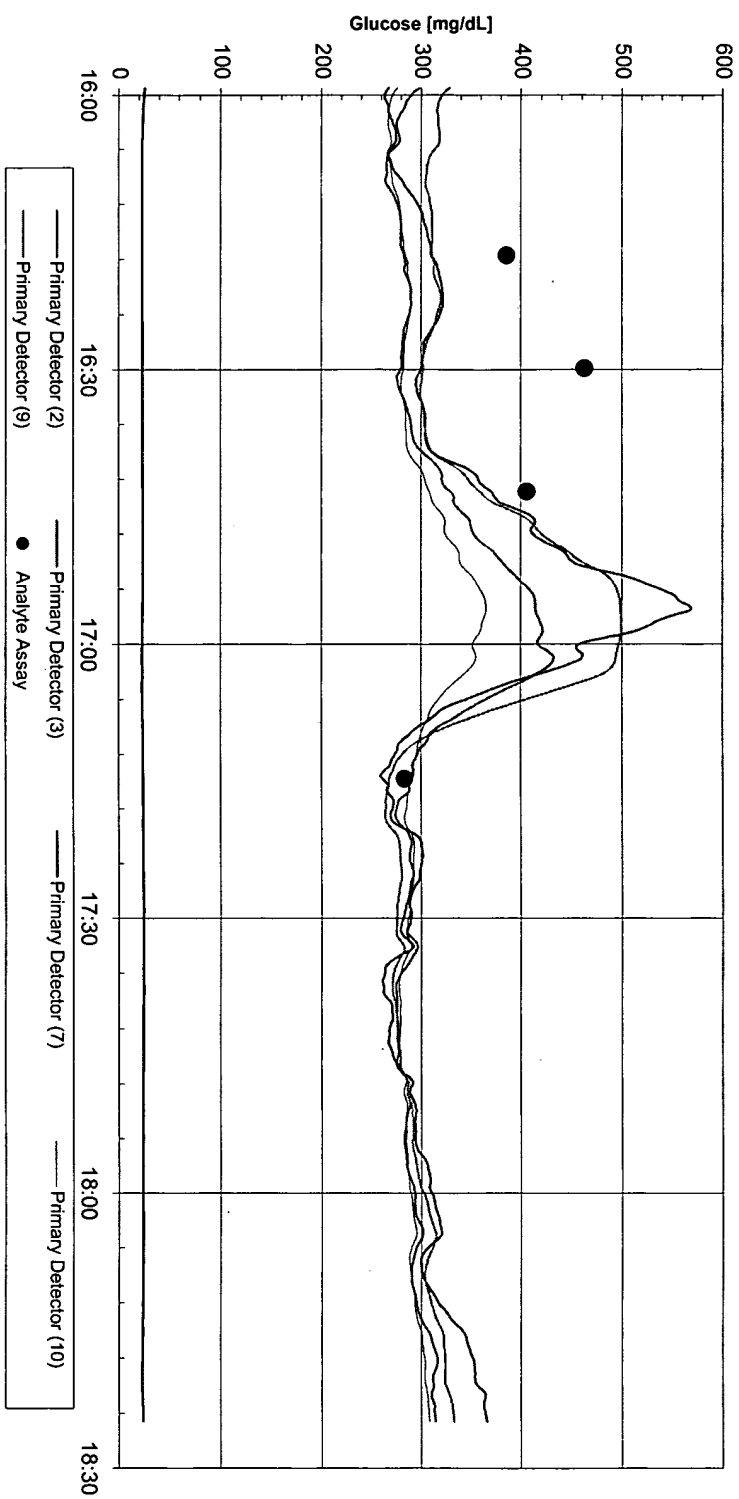


Figure 19: Temporally Adjusted, Calculated Analyte Concentrations

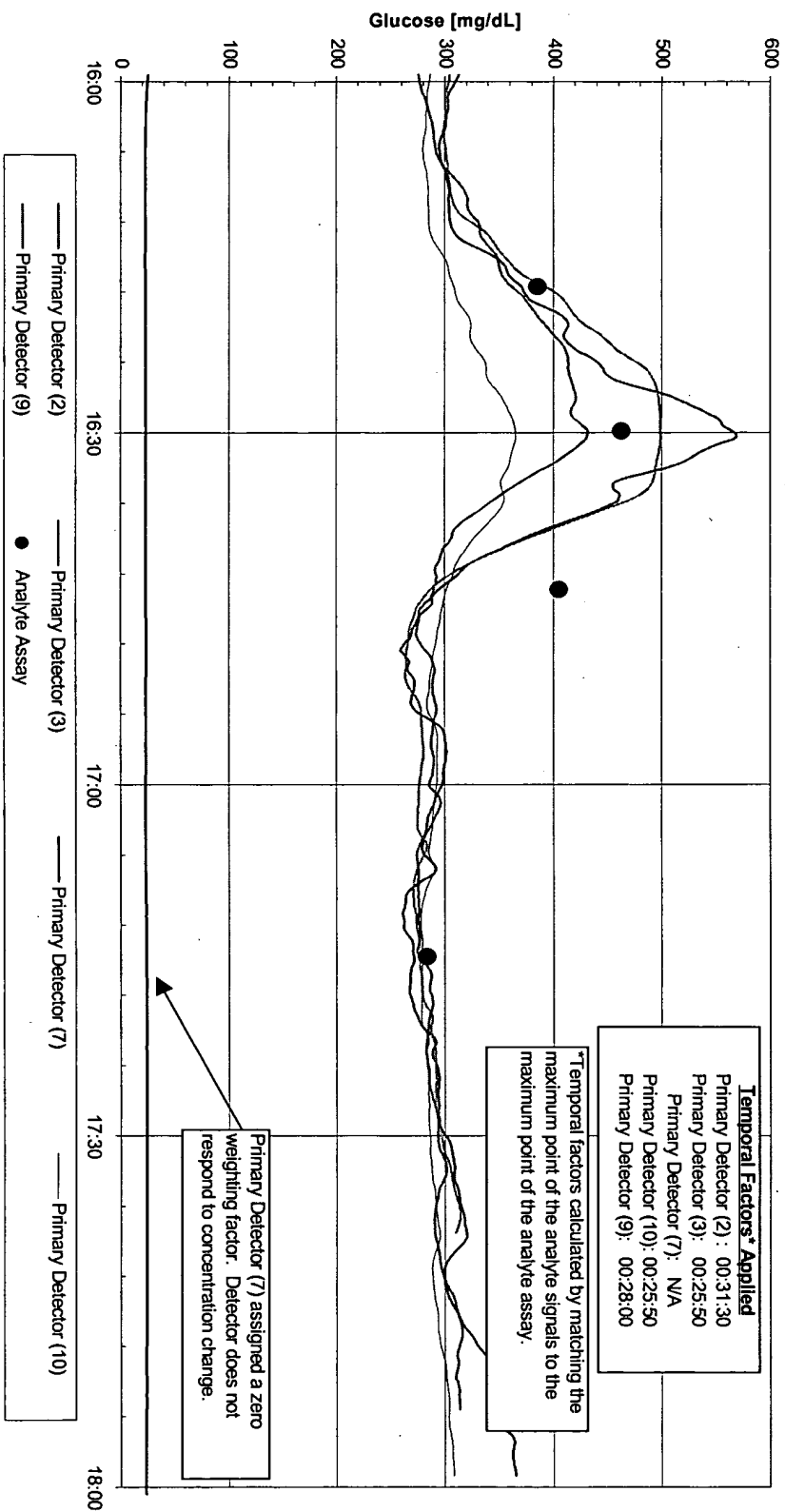


Figure 20: Temporally Adjusted, and Weighted and Summed Analyte Signals

